

**Claims:**

1. A constant temperature valve used in a faucet, comprising:
  - a sleeve being mountable on the faucet and being cylindrical and hollow, a plurality of O-shaped rubber rings being distributed longitudinally on an outer peripheral of the sleeve and dividing the outer peripheral of the sleeve into a plurality of sections;
  - an actuator being telescopically mounted in the sleeve with interval therebetween, and forming a plurality of collars on an outer peripheral thereof for fitting with sections of the sleeve, a plurality of grooves being defined in an outer peripheral of the collars; and
  - a plurality of spring rings being received in the grooves of the actuator.
2. The constant temperature valve as claimed in claim 1, wherein each spring ring forms a gap for enhancing resiliency thereof.
3. The constant temperature valve as claimed in claim 1, wherein the diameters of outer peripherals of the spring rings are slightly larger than the diameter of an inner peripheral of the sleeve, and wherein the diameters of inner peripherals of the spring rings are slightly larger than the diameters of inner peripherals of the grooves of the actuator
4. The constant temperature valve as claimed in claim 1, wherein a pair of cavities is respectively defined in opposite ends of the actuator for providing water pressure to pull the actuator, and wherein a plurality of through holes is defined in the peripheral of the actuator and communicates with the cavities for allowing water to flow into the cavities.
5. The constant temperature valve as claimed in claim 1, wherein each section of the sleeve defines a plurality of inlet holes and outlet holes for water inlet and outlet.